

CLAIMS

1. A method of interference averaging in a multicarrier system,
5 comprising:
 providing a plurality of subcarriers;
 transmitting nulls on selected ones of the subcarriers during
a symbol period; and
 transmitting data on the remainder of the subcarriers during
10 the symbol period.
2. The method of claim 1, further comprising:
 spacing the nulls evenly on the subcarriers across a channel
band.
- 15 3. The method of claim 1, further comprising:
 randomly spacing the nulls on the subcarriers across a
channel band.
- 20 4. The method of claim 1, further comprising:
 offsetting the subcarriers in time.
5. The method of claim 1, further comprising:
 offsetting the subcarriers in frequency.
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6. A transmitter capable of interference averaging in a multicarrier system, comprising:

means for transmitting packet data on plurality of subcarriers;

5 means for transmitting nulls on selected ones of the subcarriers during a symbol period; and

means for transmitting data on the remainder of the subcarriers during the symbol period.

10 7. A method of interference averaging in a multicarrier system, comprising:

providing a plurality of subcarriers;

assigning a plurality of data symbols to a first subset of the subcarriers for transmission during a symbol period;

15 assigning the data symbols to a second subset of the subcarriers

for transmission during the symbol period; and

reducing the symbol transmit power as a function of at least one repeated data symbol in the symbol period.

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8. The method of claim 7, further comprising:

assigning the at least one repeated data symbol to an adjacent subcarrier.

25 9. The method of claim 7, further comprising:

rotating the at least repeated data symbol by a predetermined value.

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10. The method of claim 7, further comprising:
assigning the data symbols according to a predetermined
cell repetition mapping.

5 11. The method of claim 7, further comprising:
offsetting the subcarriers in time.

12. The method of claim 7, further comprising:
offsetting the subcarriers in frequency.

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13. A transmitter capable of interference averaging in a
multicarrier system, comprising:

means for assigning a plurality of data symbols to a first
subset of the subcarriers for transmission during a symbol period;

15 means for assigning the data symbols to a second subset of
the subcarriers

for transmission during the symbol period; and

means for reducing the symbol transmit power as a function
of at least one repeated data symbol in the symbol period.

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